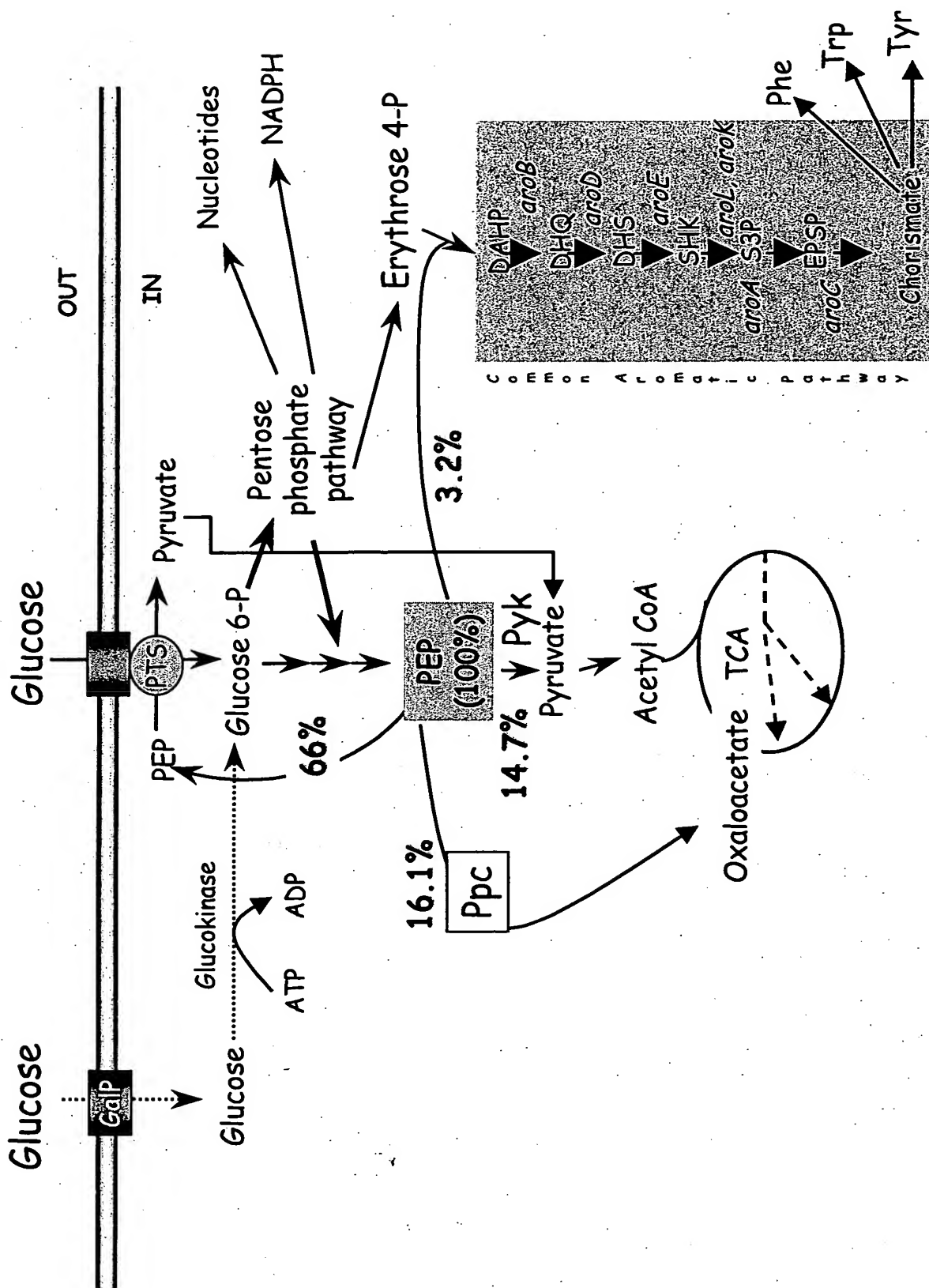


FIG. 1A



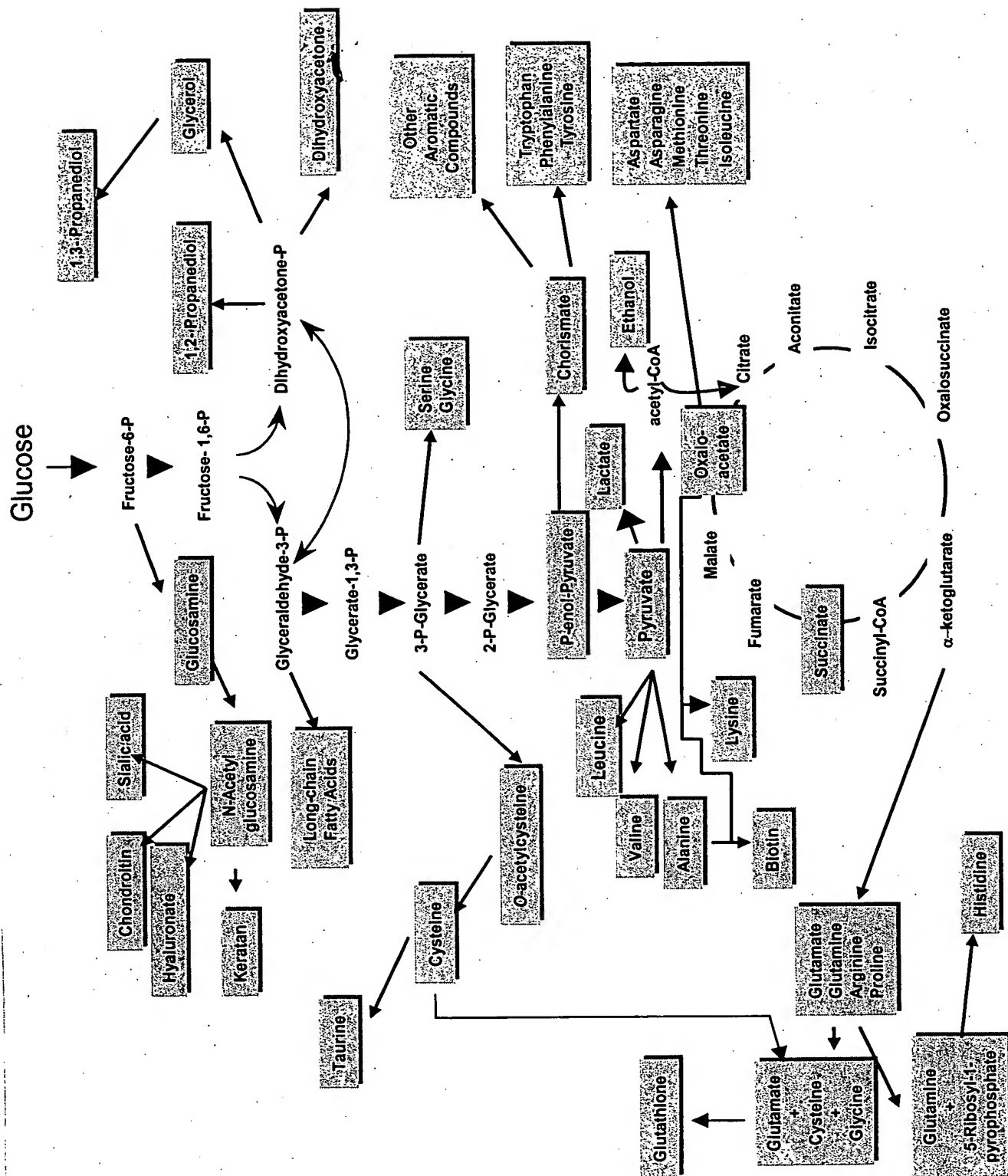


FIG. 2

TCGGTTTTTCACAGTTGTTACATTTCTTTTCAGTAAAGTCTGGATGCATATGGC
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CTGCAGGTCCGAATTTCTGCCATTCATCCGCTTATTATCACTTATTCAGGCGT
AGCACCAGGCGTTTAAGGGCACCAATAACTGCCTTAAAAAAATTACGCCCC
GCCCTGCCACTCATCGCAGTACTGTTGTAATTCATTAAGCATTCTGCCGA
CATGGAAGCCATCACAAACGGGCATGATGAACCTGAATCGCCAGCGGCAT
CAGCACCTTGTCGCCTTGCGTATAATATTTGCCCATGGTGAAAACGGGG
GCGAAGAAGTTGTCCATATTGGCCACGTTTAAATCAAACTGGTGAAAC
TCACCCAGGGATTGGCTGAGACGAAAAACATATTCTCAATAAACCCCTTA
GGGAAATAGGCCAGGTTTTACCGTAACACGCCACATCTTGCGAATATA
TGTGTAGAAACTGCCGGAAATCGTCGTGGTATTCACTCCAGAGCGATGA
AAACGTTTCAGTTTGCTCATGGAAAACGGTGTAACAAGGGTGAACACTA
TCCCATATCACCAGCTCACCGTCTTTCATTGCCATACGGAATTCCGGATG
AGCATTATCAGGCGGGCAAGAATGTGAATAAAGGCCGGATAAACTTG
TGCTTATTTTTCTTTACGGTCTTTAAAAAGGCCGTAATATCCAGCTGAAC
GGTCTGGTTATAGGTACATTGAGCAACTGACTGAAATGCCTCAAAATGTT
CTTTACGATGCCATTGGGATATATCAACGGTGGTATATCCAGTGATTTTT
TTCTCCATTTTAGCTTCCTTAGCTCCTGAAAATCTCGATAACTCAAAAAATAC
GCCCGGTAGTGATCTTATTTTCATTATGGTGAAAGTTGGAACCTCTTACGTGCC
GATCAACGTCTCATTTCGCCAAAAGTTGGCCCAGGGCTTCCCGGTATCAACA
GGGACACCAGGATTTATTTATTCTGCGAAGTGATCTTCCGTCACAGGTATTTA
TTCGGACTCTAGATAACTTCGTATAGCATACATTATACGAAGTTATGGATCATG
GCTGTGCAGGTCGTAAATCACTGCATAATTCGTGTCGCTCAAGGCGCACTCCC
GTTCTGGATAATGTTTTTTTGCGCCGACATCATAACGGTTCTGGCAAATATTCT
GAAATGAGCTGTTGACAATTAATCATCCGGCTCGTATAATGTGTGGAATTGTG
AGCGGATAACAATTTACACAGGAAACAGACTAATTCACAATAAAAAATAACC
ATATTGGAGGGCATCATG

FIG. 3

**CAGCAGTGGTGGTGATCGGTTTTGGCTGGGGGCCCCTCCCCGCACCGGAG
GCCGATTACAGCCAACCACAACAGGCAAAGGGTTTGGAAGATATTCATA
TTATTATTGCGGTTGTACAGTTGTTACATTTCTTTTCAGTAAAGTCTGG
ATGCATATGGCGGCCGCATAACTTCGTATAGCATACATTATACGAAGTTATGGATC
ATGGCTGTGCAGGTCGTAAATCACTGCATAATTGGTGTCGCTCAAGGCGCACT
CCCGTTCTGGATAATGTTTTTTGCGCCGACATCATAACGGTTCTGGCAAATATT
CTGAAATGAGCTGTTGACAATTAATCATCCGGCTCGTATAATGTGTGGCATTG**

FIG. 4

ACTTAGTTTGCCCAGCTTGCAAAAAGGCATCGCTGCAATTGGATGCATATGG
CGGCCGCATAA*CTTCGTATAGCATACATTATACGAAGTTATCTAGAGTTGCATG*
CCTGCAGGTCCGAATTTCTGCCATTCATCCGCTTATTATCACTTATTCAGGCGT
AGCACCAGGCGTTTAAAGGGCACCAATAACTGCCTTAAAAAAATTACGCCCC
GCCCTGCCACTCATCGCAGTACTGTTGTAATTCATTAAGCATTCTGCCGA
CATGGAAGCCATCACAAACGGCATGATGAACCTGAATCGCCAGCGGCAT
CAGCACCTTGTCGCCTTGCGTATAATTTTGCCCATGGTGAAAACGGGG
GCGAAGAAGTTGTCCATATTGGCCACGTTTAAATCAAACTGGTGAAAC
TCACCCAGGGATTGGCTGAGACGAAAAACATATTCTCAATAAACCTTTA
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TGTGTAGAACTGCCGGAAATCGTCGTGGTATTCACTCCAGAGCGATGA
AAACGTTTCAGTTTGCTCATGGAAAACGGTGTAACAAGGGTGAACACTA
TCCCATATCACCAGCTCACCGTCTTTTCATTGCCATACGGAATTCCGGATG
AGCATTCAATCAGGCGGGCAAGAATGTGAATAAAGGCCGGATAAACTTG
TGCTTATTTTTCTTTACGGTCTTTAAAAAGGCCGTAATATCCAGCTGAAC
GGTCTGGTTATAGGTACATTGAGCAACTGACTGAAATGCCTCAAAATGTT
CTTTACGATGCCATTGGGATATATCAACGGTGGTATATCCAGTGATTTTT
TTCTCCATTTTAGCTTCCTTAGCTCCTGAAAATCTCGATAACTCAAAAAATAC
GCCCGGTAGTGATCTTATTTTCATTATGGTGAAAGTTGGAACCTCTTACGTGCC
GATCAACGTCTCATTTTCGCCAAAAGTTGGCCCAGGGCTTCCCGGTATCAACA
GGGACACCAGGATTTATTTATTCTGCGAAGTGATCTTCCGTACAGGTATTTA
TTCGGACTCTAGATAA*CTTCGTATAGCATACATTATACGAAGTTATGGATCATG*
GCTGTGCAGGTTCGTAAATCACTGCATAATTCGTGTGCTCAAGGCGCACTCCC
GTTCTGGATAATGTTTTTTGCGCCGACATCATAACGGTTCTGGCAAATATTCT
GAAATGAGCTGCTGACAATTAATCATCCGGCTCGTATAATGTGTGGAATTGTG
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AGCGGAGCAGTTGAAGAATG

FIG. 5

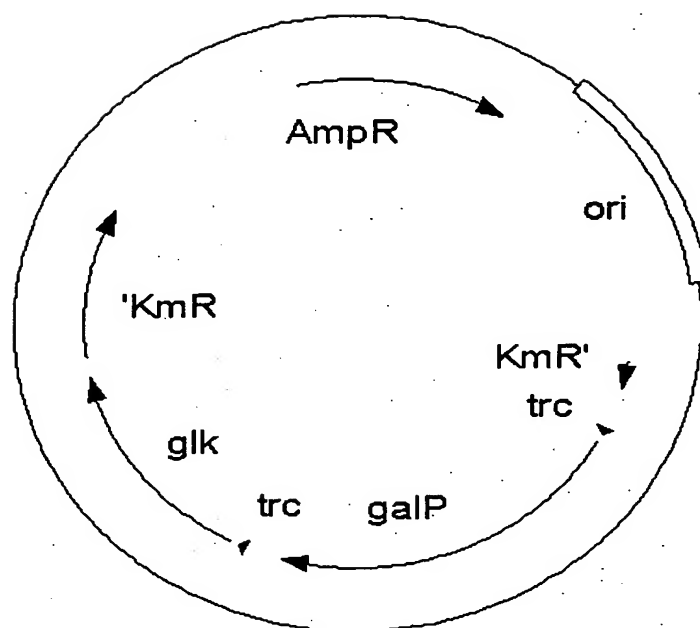


FIG. 6

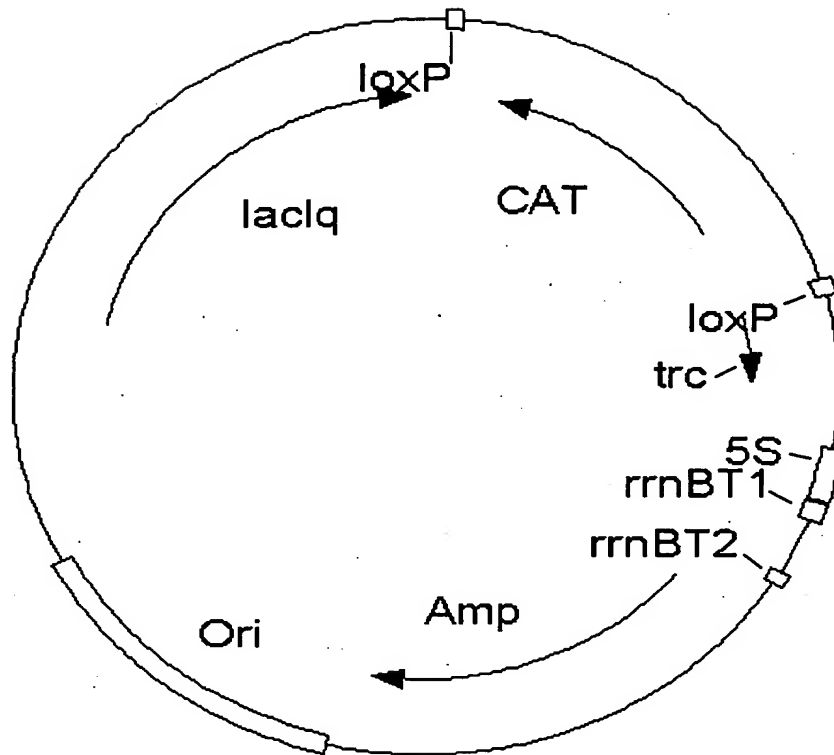


FIG. 7A.

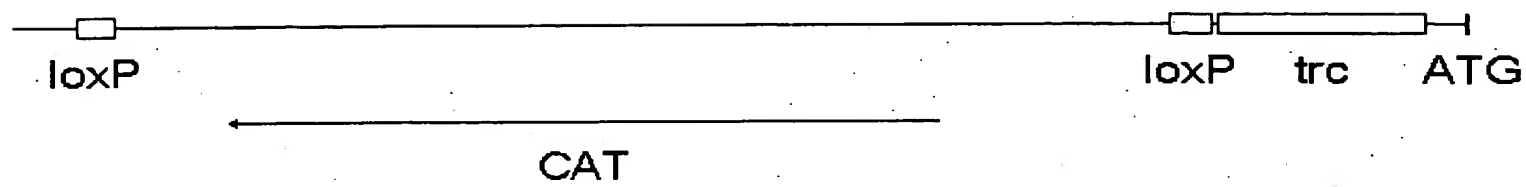


FIG. 7B

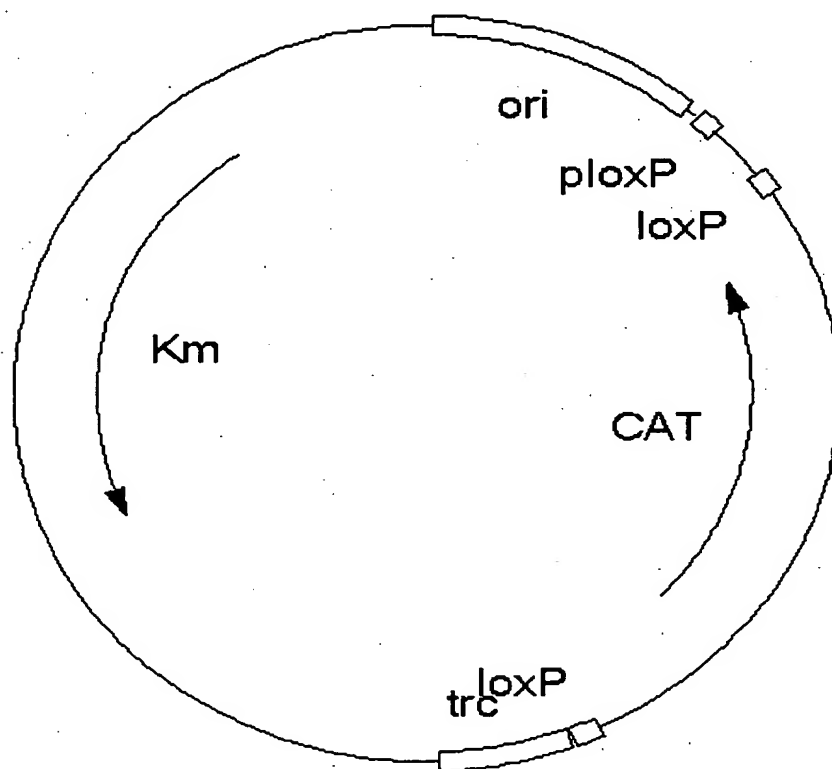


FIG. 8.

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AACCACAACCTAAGGCAACAACGTTCTTCAAAGCACCACAGATGGAGATACCAGCA
ACATCTTCGATGACACTAACGTGGAAGTAAGGTCTGTGGAACAAGGCCTTTAGAAC
CTTATGGTCGACGTCCTTGCCCTCGCCTCTGAAATCCTTTGGAATGTGGTAAGCAA
CTGTTGTTTCAGACCAGTGTTCTTGAGCGACTTCGGTGGCAATGTTAGCACCAGAT
AGAGCACCACATTGAATACCTAGTTCCTCAGTGATGTAAGAGGATAGCAATTGGAC
ACCTTTAGCACCAACTTCAAACCCCTTTAGACAGGAGATAGCTCTGACGTGTGAATC
AACATGACCTTTCAATTGGCTACAGATACGGGGCAAAAATTGATGTGGAATGTTGAA
AACGATGATGTCGACATCCTTGACTGAATCAATCAAGTCTGGATTAGCAACCAAATT
GTCGGGTAGAGTGATGCCAGGCAAGTATTTACGTTTTGATGTCTAGTATTTATGAT
TTCAGTCAATTTTTACCATTTGATCTCTTCTTCGAACACCCACATTTGTACTATTGGA
GCGAAAACCTTCTGGGTATCCCTTACAATTTTCGGCAACCACCTTGGCAATAGTAGTA

CCCCAGTTACCAGATCCAATCACAGTAACCTTGAAAGGCTTTTCGGCAGCCTTCAA
AGAAACAGAAGAGGAACTTCTCTTTCTACCAGCATTCAAGTGGCCGGAAGTTAAGT
TTAATCTATCAGCAGCAGCAGCCATGGAATTGTCCTCCTTACTAGTCATGGTCTGTT
TCCTGTGTGAAATTGTTATCCGCTCACAATTCACACATTATACGAGCCGGATGATT
AATTGTCAACAGCTCATTTCAGAATATTTGCCAGAACCGTTATGATGTCGGCGCAAA
AAACATTATCCAGAACGGGAGTGCGCCTTGAGCGACACGAATTATGCAGTGATTTA
CGACCTGCACAGCCATACCACAGCTTCCGATGGCTGCCTGACGCCAGAAGCATTG
GTGCACGCTAGCCAGTACATTTAAATGGTACCCTCTAGTCAAGGCCTTAAGTGAGT
CGTATTACGGACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTT
ACCCAACCTAATCGCCTTGACAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGA
AGAGGCCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGG
CGCCTGATGCGGTATTTTCTCCTTACGCATCTGTGCGGTATTTACACCCGCATATG
GTGCACTCTCAGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAGCCCCGACACC
CGCCAACACCCGCTGACGAGCT

FIG. 9

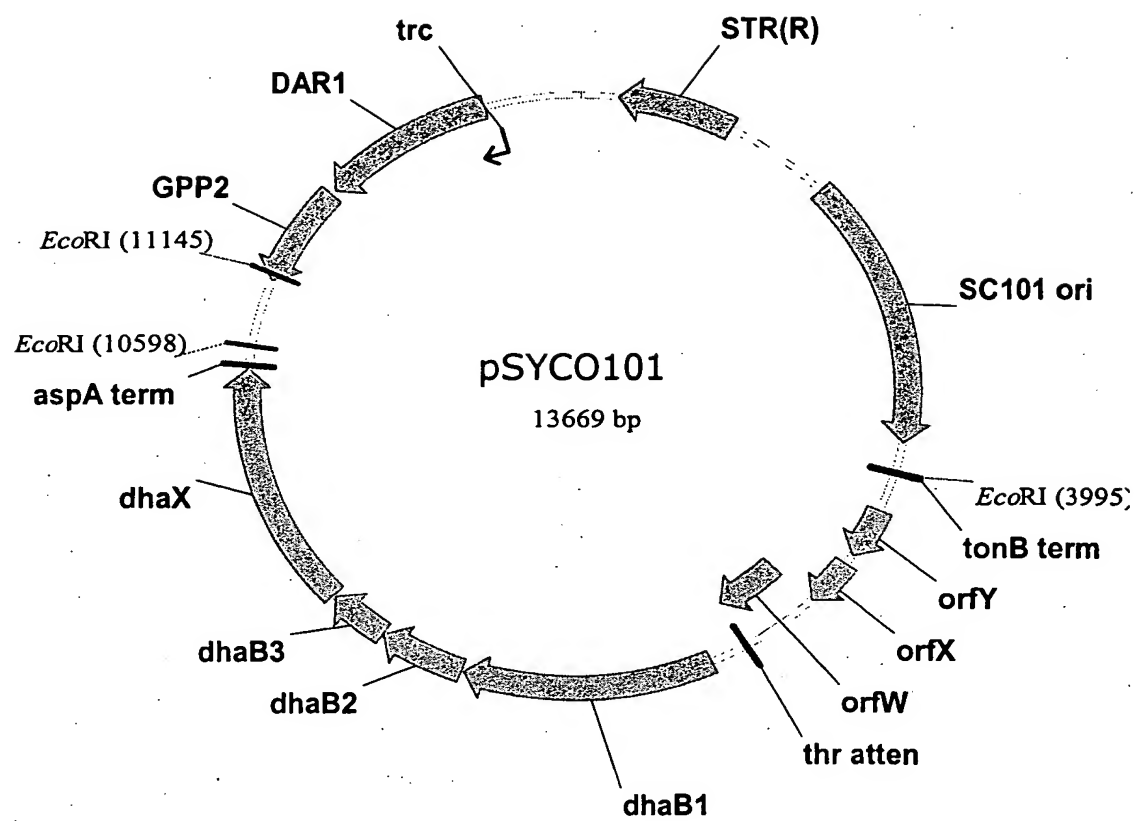
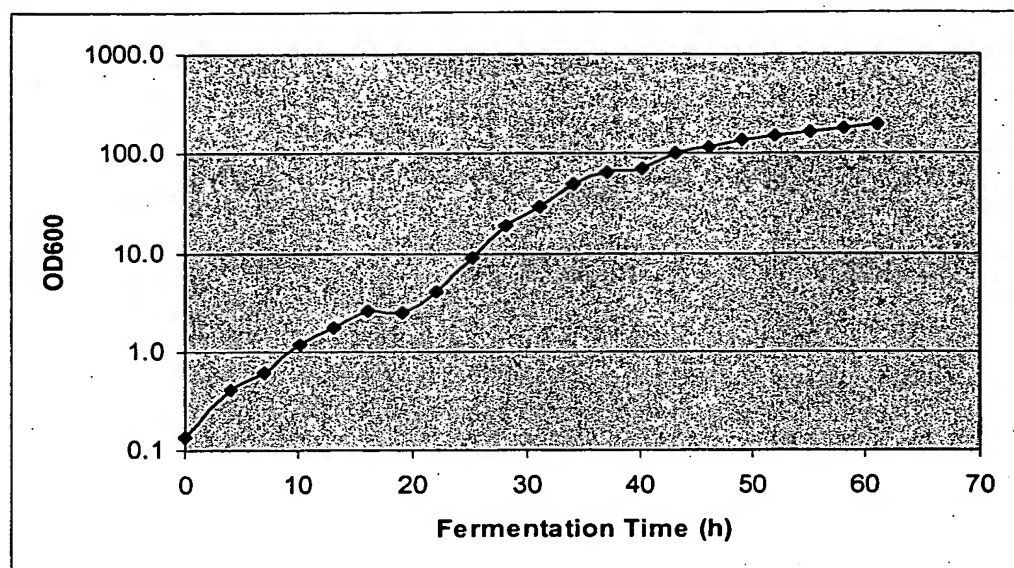


FIG. 10.

A.



B.

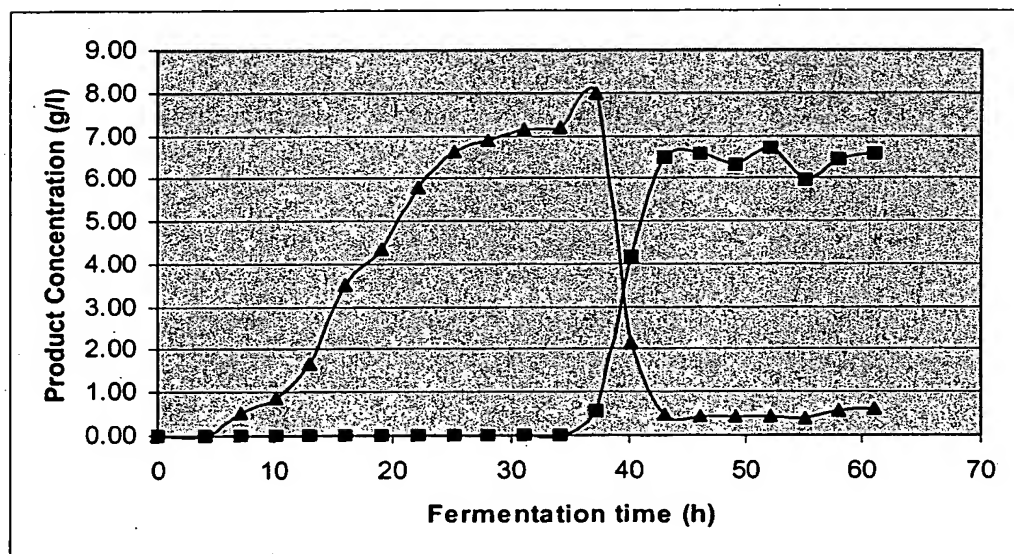
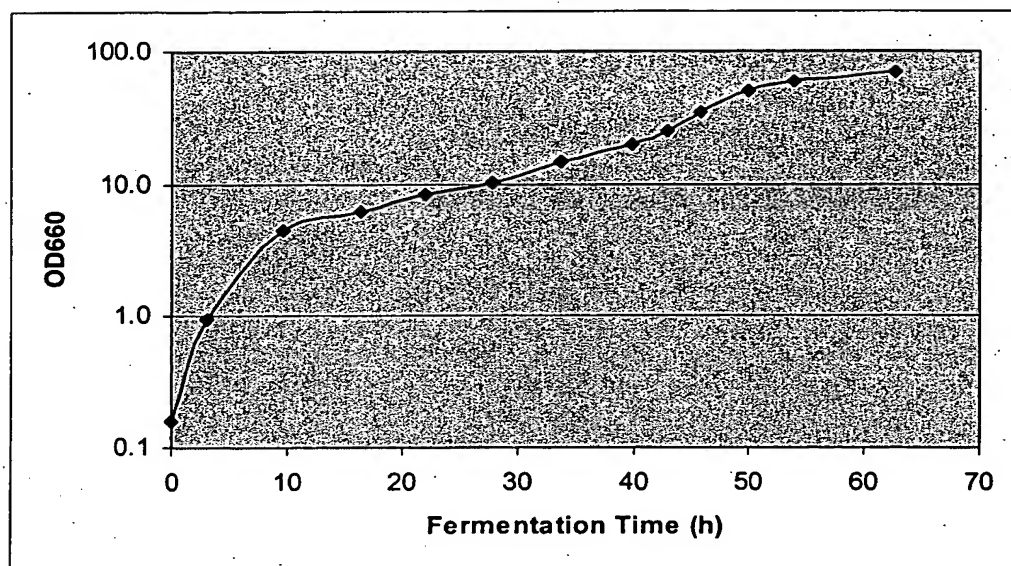


FIG. 11

A.



B.

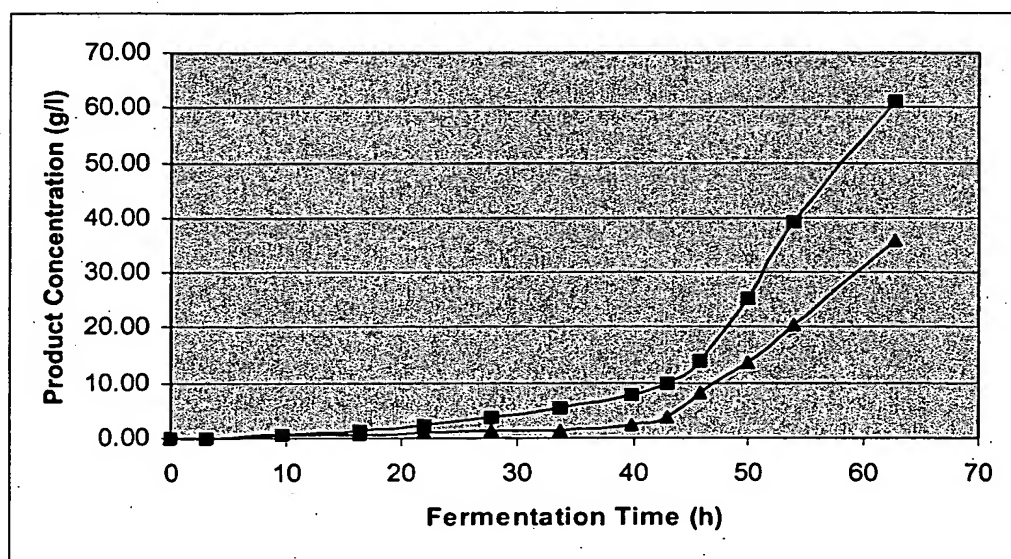
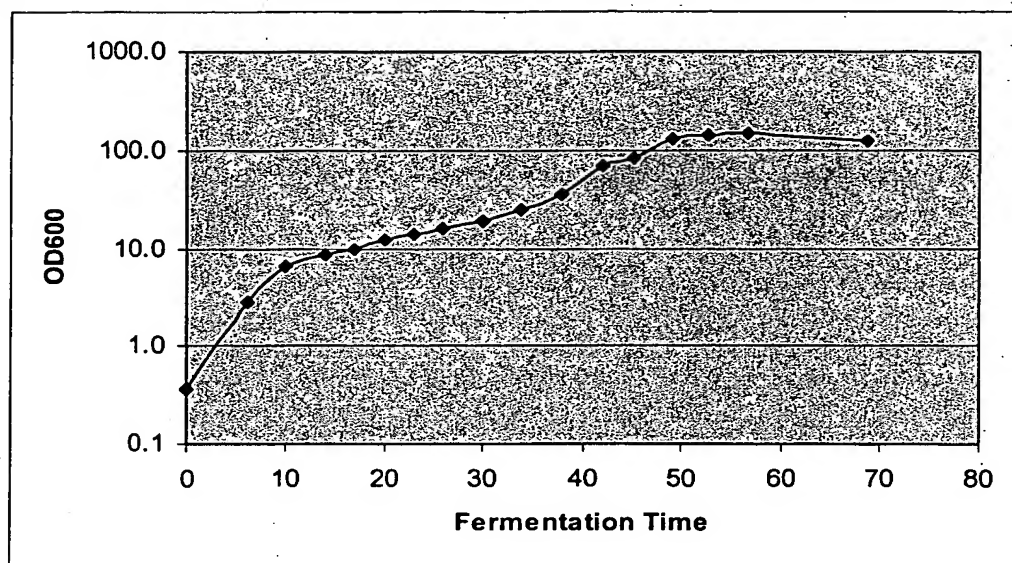


FIG. 12

A.



B.

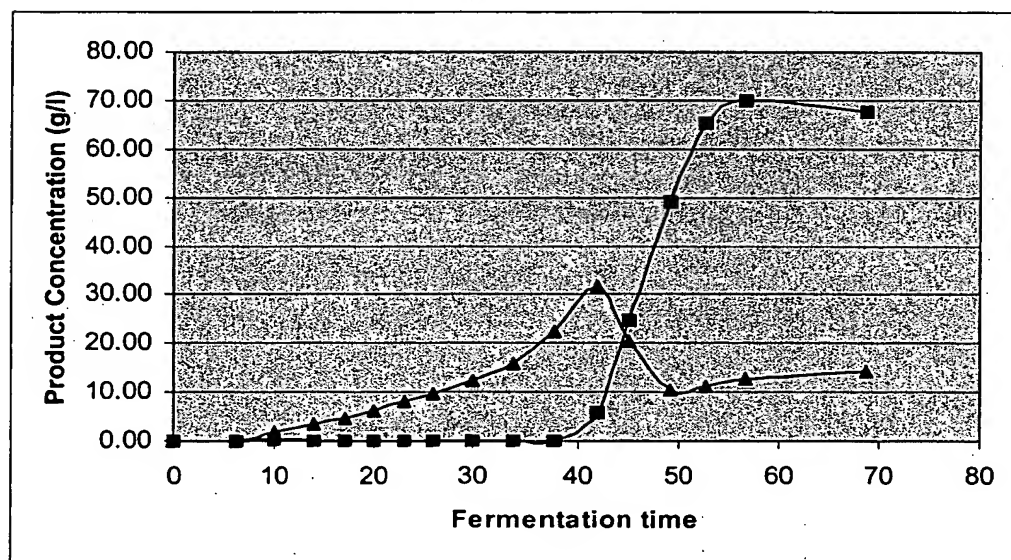


Fig. 13

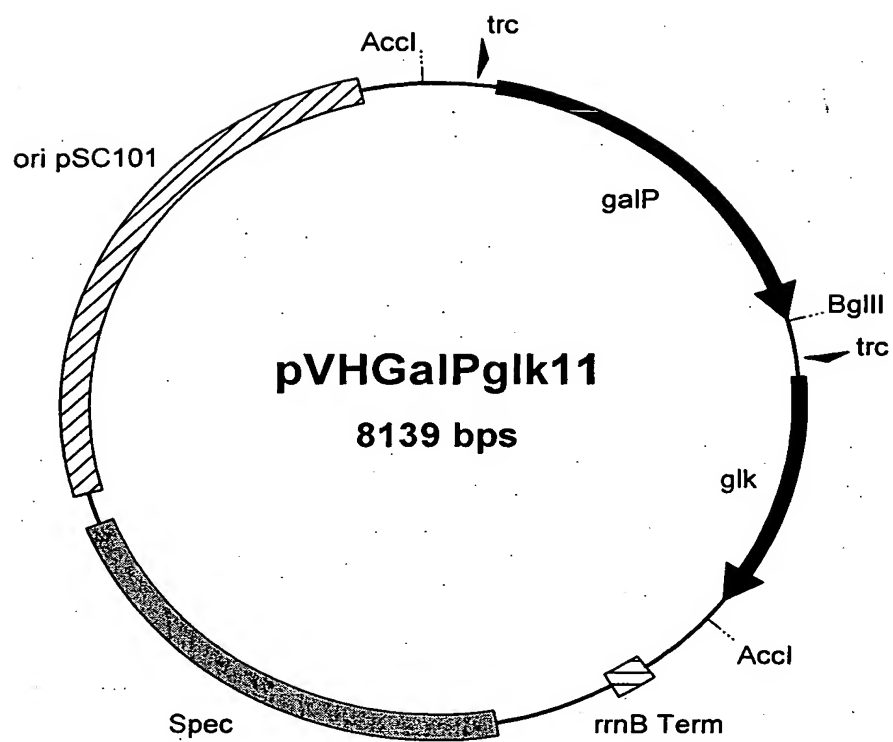


FIG. 13

CAGCTGAGATCTCCTAGAGCTCGCCGGGTCACACTACCTATAGACGCTCTTAAGCGGGAACCTTCGACACCATACCGACACGCTCCAGCATTTAGTGACG
 200
 ATAATTCGTGTCGCTCAAGGCGCACTCCCGTTCTGGATAATGTTTTTGGCCGACATCATACGGTTCTGGCAAAATATTCTGAAATGAGCTGTTGACAA
 TATTAGCACAGCGAGTTCGCGTGAGGCAAGACCTATTACAAAAACGCGGTGTAGTATTGCCAAGACCGTTTATAAGACTTTACTCGACAACTGTT
 300
 TTAATCATCCGGCTCGTATAATGTTGGGAATTGTGAGCGGATAACAAATTCACACAGGAACAGACCATGCTGACGCTAAAAACAGGGGCGGTCAAAC
 AATTAGTAGGCCGAGCATATTACACACCTTAACACTCGCCTATTGTTAAAGTGTGCTCTTGTCTGGTACGGACTGCGAATTTTGTCTCCCGCCAGTTTG
 400
 AAGGCAATGACGTTTTTCGCTGCTTCCCTGCGGATTACTCTTTGGCCTGGATATCGGIGTAATTGCTGGCGCACCTGCCGTTTATTGTCAG
 TTCCGTTACTGTCAAAAAAGCAGACGAAAGGACCGCGAGACCGCCTAATGAGAAACCGGACCTATAGCCACATTAAACGACCGCTGACGGCAAAATAACGTC
 Lys Ala Met Thr Phe Phe Val Cys Phe Leu Ala Ala Leu Ala Gly Leu Leu Phe Gly Leu Asp Ile Gly Val Ile Ala Gly Ala Leu Pro Phe Ile Ala
 500
 ATGAATTCAGATTACTTCGCACACGCAAGAAATGGGTGTAAGCTCCATGATGTTGCGTGGCAGTCGGTGGGCGAGCGGCTGGCTCTCTTTAA
 TACTTAAAGTCTAATGAAGCGTGTGCTTCTTACCCAGCATTCGAGGTACTACAAGCCACGCCGTCAGCCACGCCACCGCTCGCCGACCGGAGGAAAT
 Asp Glu Phe Gln Ile Thr Ser His Thr Gln Glu Trp Val Val Ser Ser Met Phe Gly Ala Val Gly Ser Gly Trp Leu Ser Phe Lys
 600
 ACTCGGGCGCAAAAGAGCCTGATGATCGGCGCAATTTTGTGTTGCGGTTGCTGCTGCGGTCGCCCAAACGTTGAAGTACTGATCTTTTCC
 TGAGCCCGCGTTTTTCTCGGACTACTAGCCGCTTAAACAAACACGCGCAAGCAGACGAGACGCGCGGTTTGCAACTTCATGACTAAGAAAGG
 Leu Gly Arg Lys Lys Ser Leu Met Ile Gly Ala Ile Leu Phe Val Ala Gly Ser Leu Phe Ser Ala Ala Pro Asn Val Glu Val Leu Ile Leu Ser
 700
 CGCGTTCTACTGGGGCTGGCGGTGGGTGTTGCGCTTATACCGCACCGCTGTTACCTCTCTGAAATTCGCGCGGAAAAATTCGTGGCAGTATGATCTCGA
 GCGCAAGATGACCCCGACCGCCACACCGGAGAAATATGGCGTGGCGACATGGAGAGACTTTAAACGCGGCCCTTTTAAAGCACCGCTCATACTAGAGCT
 Arg Val Leu Leu Gly Leu Ala Val Gly Val Ala Ser Tyr Thr Ala Pro Leu Tyr Leu Ser Glu Ile Ala Pro Glu Lys Ile Arg Gly Ser Met Ile Ser

FIG. 14A

TGATCAGTIGATGATCACTATCGGGATCCTCGGTGCTTATCTTTCTGATACCGCCTTCAGCTACACCGGTGCAITGGCGCTGGAITGGTGTGATTAT 800
ACATAGTCAACTACTAGTATAGCCCTAGGAGCCACGAATAGAAAGACTATGGCGGAAGTCGATGTGGCCACGTACCGGACCTACGACCCACACTAATA
Met Tyr Gln Leu Met Ile Thr Ile Gly Ile Leu Gly Ala Tyr Leu Ser Asp Thr Ala Phe Ser Tyr Thr Gly Ala Trp Arg Trp Met Leu Gly Val Ile Ile

CATCCCGGCAATTTTGCTGCTGATTGGTGTCTTCTTCCCTGCCAGACGCCACGTTGGTTTGCCGCCAAACGCCGTTTGTGATGCCGAACGCGTGCTG 900
GTAGGGCCGTTAAACGACGACTAACCCACAGACAGAAGGACGGTCTGTGCGGTGCAACCAACGGCGGTTTGCGGCAAAACAACACTACGGCTTGCGCACGAC
Ile Pro Ala Ile Leu Leu Ile Gly Val Phe Phe Leu Pro Asp Ser Pro Arg Trp Phe Ala Ala Lys Arg Arg Phe Val Asp Ala Glu Arg Val Leu

CTACGCCCTGCGTGACACCAGCGGGAAGCGAAACGGAACTGGATGAAATCCGTGAAAGTTTGCAGGTTAAACAGAGTGGCTGGGCGCTGTTTAAAGAGA 1000
GATCGGACGCACTGTGGTCGCGCCTTCGCTTTCGCTTGACCTACTTTAGGCACCTTCAACAGTCCAAATTTGCTCACCAGCCCGGACAAAATTTCTCT
Leu Arg Leu Arg Asp Thr Ser Ala Glu Ala Lys Arg Glu Leu Asp Glu Ile Arg Glu Ser Leu Gln Val Lys Ser Gly Trp Ala Leu Phe Lys Glu

ACAGCAACTTCGCGCGCGGTGTTCCCTTGGCGTACTGTTGCGAGGTAATGCAGCAATTACCGGGATGAACGTCATCATGTATTACGCGCCGAAATCTT 1100
TGTCGTTGAAGCGGCGGCCACAAAGAACCGCATGACAACGTCCATTACGTCTGTTAAGTGGCCCTACTTGCAGTAGTACATAATGCGCGCTTTTAGAA
Asn Ser Asn Phe Arg Arg Ala Val Phe Leu Gly Val Leu Leu Gln Val Met Gln Gln Phe Thr Gly Met Asn Val Ile Met Tyr Tyr Ala Pro Lys Ile Phe

CGAACTGGCGGGTTATACCAACACTACCGAGCAAAATGTGGGGACCGTGATTGTGGCCTGACCAACGTA CTGTCACCTTTATCGCAATCGGCCTTGTT 1200
GCTTGACCGCCCAATATGTTGTGATGGCTCGTTACACCCCTGGCACTAACAGCCGACTGGTTGCATGAACGGTGGAAATAGCGTTAGCCCGGAACAA
Glu Leu Ala Gly Tyr Thr Asn Thr Thr Glu Gln Met Trp Gly Thr Val Ile Val Gly Leu Thr Asn Val Leu Ala Thr Phe Ile Ala Ile Gly Leu Val

GACCGCTGGGACGTAAACCAACGCTAACGCTGGGCTTCCTGGTATGGCTGGCATGGGCGTACTCGGTACAATGATGCATATCGGTATTCACCTCTC 1300
CTGGCGACCCCTGCATTGTGCGATTGCGACCCCGAAGGACCACCTACCGACGACCGTACCCGCGATGAGCCATGTTACTACGTATAGCCATAAGTGAGAG
Asp Arg Trp Gly Arg Lys Pro Thr Leu Thr Leu Gly Phe Leu Val Met Ala Ala Gly Met Gly Val Leu Gly Thr Met Met His Ile Gly Ile His Ser

CGTCGGCGCAGTATTTGCGCCATGCTGCTGATGTTTATTGTGCGGTTTGCCATGAGTGCCGGTCCGCTGATTTGGGTACTGTGCTCCGAAATTC A 1400
GCAGCCGCGTCAATAAGCGGTAGCGGTACGACGACTACAAA TAACAGCCAAAACGGTACTCACGGCCAGGCGGACTAAACCCATGACACGAGGCTTTAAGT
Pro Ser Ala Gln Tyr Phe Ala Ile Ala Met Leu Leu Met Phe Ile Val Gly Phe Ala Met Ser Ala Gly Pro Leu Ile Trp Val Leu Cys Ser Glu Ile Gln

FIG. 14B

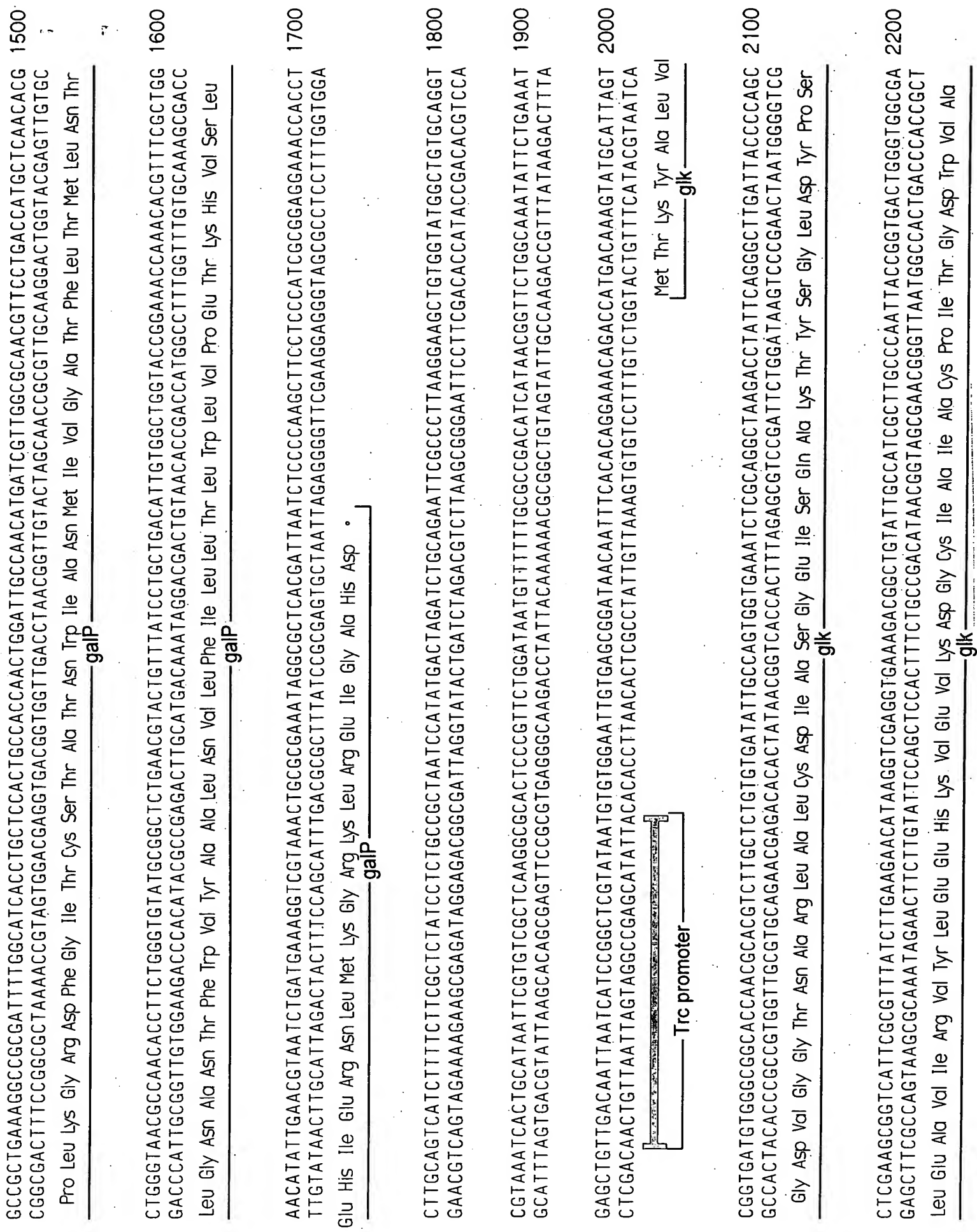


FIG. 14C

TGACCAACCATACCTGGGCGTTCICAATTGCCGAAATGAAAAAGAAATCICGGTTTTAGCCATCIGGAAATTAACGATTTTACCGCTGTATCGATGGC 2300
 ACTGGTTGGTATGGACCCGCAAGAGTTAACGGCTTTACTTTTCTTAGAGCCCAAATCGGTAGACCTTTAATAATTGCTAAATGGCGACATAGCTACCG
 yet Thr Asn His Thr Trp Ala Phe Ser Ile Ala Glu Met Lys Lys Asn Leu Gly Phe Ser His Leu Glu Ile Ile Asn Asp Phe Thr Ala Val Ser Met Ala
 _____glk_____

GAACCCGATGCTGAAAAAAGAGCATCTGATTCAGTTTGGTGGCGCAGAACCCGGTCGAAGGTAAAGCCTATTGCGGTTTACGGTGC CGGAACGGGGCTTGGG 2400
 CTGGGGCTACGACTTTTTTCTCGTAGACTAAGTCAAAACCACCGGCTTGGCCAGCTTCCATTCCGATAACGCCCAAATGCCACGGCCTTGCCCCGAAACCC
 Asn Pro Met Leu Lys Lys Glu His Leu Ile Gln Phe Gly Ala Glu Pro Val Glu Gly Lys Pro Ile Ala Val Tyr Gly Ala Gly Thr Gly Leu Gly
 _____glk_____

GTTGGCATCTGGTCCATGTCGATAAGCGTTGGTAAGCTTGCCAGGCGAAAGGCGGTACGTTGATTTTGGCCCGAATAGTGAAGAAGAGGCCATTATATCC 2500
 CAACGCGTAGACCAGGTACAGCTATTTCGCAACCCATTTCGAACCGTCCGCTTCGCGCAGTGCAACTAAACGCGGCTTATCACTTCTTCTCCGGTAATAGG
 Val Ala His Leu Val His Val Asp Lys Arg Trp Val Ser Leu Pro Gly Gly His Val Asp Phe Ala Pro Asn Ser Glu Glu Ala Ile Ile
 _____glk_____

TCGAAATATTGCGTGGGAAATGGTCAATGTTTCGGCGGAGGCGTGCCCTTTCCTGGCCCTGGGCTGGTGAATTTGTATCGCGCAATTGTGAAAGCTGACAA 2600
 AGCTTTATAACGCACGCCCTTTAACCCAGTACAAAGCCGCCCTCCGCACGGAAAGACCGGACCCGACCACTTAAACATAGCGCGTTAACACACTTTCGACTGTT
 Leu Glu Ile Leu Arg Ala Glu Ile Gly His Val Ser Ala Glu Ala Cys Leu Ser Gly Pro Gly Leu Val Asn Leu Tyr Arg Ala Ile Val Lys Ala Asp Asn
 _____glk_____

CCGCTGCCAGAAAATCTCAAGCCAAAAGATATTACCGAACGCGCGTGGCTGACAGCTGCACCGATTGCCGCGCGCATTTGTCGCTGTTTTGCGTCATT 2700
 GGCGGACGGTCTTTAGAGTTCGGTTTCTATAATGGCTTGCGCGGACCGACTGTCGACGTGGCTAACGGCGGCGGTAAACAGCGACAAAACGGAGTAA
 Arg Leu Pro Glu Asn Leu Lys Pro Lys Asp Ile Thr Glu Arg Ala Leu Ala Asp Ser Cys Thr Asp Cys Arg Ala Leu Ser Leu Phe Cys Val Ile
 _____glk_____

ATGGGCGGTTTTGGCGGCAATCTGGCGCTCAATCTCGGGACATTTGGCGGCGTGTTTTATTGCGGGCGGTATCGTGCCGCGCTTCCTTGAGTTCCTTCAAAG 2800
 TACCCGGCAAAACCGCGGTTAGACCGCGGAGTTAGAGCCCTGTAAACCGCGCACAAATAACGCCCGCCATAGCACGGCGGAAGGAACCTCAAGAAAGTTTC
 Met Gly Arg Phe Gly Asn Leu Ala Leu Asn Leu Gly Thr Phe Gly Gly Val Phe Ile Ala Gly Gly Ile Val Pro Arg Phe Leu Glu Phe Phe Lys
 _____glk_____

GCTCCGGTTTCCGTGCCGCAATTGAAGATAAAGGGCGCTTAAAGAAATATGTCATGATATTCGGGTGATCTCATCTGTCCTCATGACAAATCCGGGCCCTTCT 2900
 CGAGGCCAAAGCAGCGGTAACTTCTATTTCGCGGAAATTTCTTATACAGGTACTATAAGGCCACATAGAGTAGCAGGTACTGTAGGCCCGGAAGA
 Gly Ser Gly Phe Arg Ala Ala Phe Glu Asp Lys Gly Arg Phe Lys Glu Tyr Val His Asp Ile Pro Val Tyr Leu Ile Val His Asp Asn Pro Gly Leu-Leu
 _____glk_____

FIG. 14D

CGGTCCGGTGCACATTTACGCCAGACCTTAGGTCACATTCTGTAAATCCTTTTATATCGGGAGGTAACCTCTCCGATAATCTTTTAAATCATACA 3000
GCCAAGGCCACGTGTAAATGCGGTCIGGAATCCAGTGTAAGACATTTAGGAAGGAAATATAGCCCTCCATTGAGAGGGCTATTAGAAAAATTTAGTATGT

Gly Ser Gly Ala His Leu Arg Gln Thr Leu Gly His Ile Leu •
_____glk_____

GTTTATTCAATTTTTCITTTGTGTCCCCCTCACAAAGGTCGAC 3040
CAAATAAGTTAAAGAAACACACAGGGGAGTGTTCCAGCTG